

TPMC-V15

V-Panel™ Integrated 15" Touchpanel

Crestron® V-Panels™ represent a fresh approach to touchpanel design, offering whole new levels of style, versatility and the latest in Crestron digital touchpanel technology. The TPMC-V15 features a fully integrated design combining the touchpanel display and graphics engine in a single, slim housing. Sleek and beautiful, the TPMC-V15 is perfectly at home sitting on a contemporary table or desktop, but is equally suited for all kinds of custom installations thanks to integral VESA mount compatibility.

The TPMC-V15 delivers a powerful and elegant touchpanel control solution featuring a brilliant 15" widescreen WXGA display, stunning 24-bit color graphics and video, blazingly fast performance, streaming multimedia, IP intercom, Web browsing, and enhanced GUI design capabilities using Adobe® Flash® objects.

Sleek, Versatile Design

Our V-Panels have been designed with appearance and versatility in mind. At less than 2 inches deep, the TPMC-V15 can be mounted virtually anywhere using a third-party VESA 75 compliant mounting bracket or stand. A pre-configured tabletop tilt model (TPMC-V15-TILT) is offered, supplied with its own ultra-stylish, smooth-tilt base to deliver a very sleek-looking, low-profile control solution for desktops, counters, and other level surfaces. A wall mount model (TPMC-V15-WALL) is also offered, affording the same V-Panel style and function in a thoroughly modern, yet unimposing, flush mount design.

Advanced Touchpanel Control

Crestron touchpanels offer an ideal user-interface for multimedia presentation, home automation, command centers, and much more, providing a wide-open canvas for the creation of custom control screens tailored to the needs of the end-user. Touchpanels do away with piles of remote controls, cryptic control panels and cluttered wall switches, simultaneously expanding and simplifying control over a broad range of complex devices and systems.

Fully custom touchpanel control is afforded through the TPMC-V15's generous 15" widescreen format touchscreen. Dynamic graphics and text capability enable the display of all kinds of useful data and alluring eye candy—from AV controls and icons—to room temperature and lighting levels—to photos and video—to digital media playlists complete with metadata and cover art. Multi-mode buttons, PNG translucency and page transition effects enhance the palette for creating GUIs that are both eye-catching and easy to use.

Adobe® Flash® Support

New support for Adobe Flash unleashes incredible new capabilities for creating dynamic control objects, menu navigation, widgets, apps, animations and 3D effects. Use gestures to effortlessly browse large music and movie libraries, scroll through TV channels and radio stations, and select control apps from intuitive menus of colorful animated icons. Personalize your touchpanel desktop with clock, calendar, weather, RSS feed and other informative widgets.

Embedded PC & HD Streaming Media

The TPMC-V15 delivers embedded PC functionality with built-in Windows Media® Player and RealPlayer®, Internet Explorer, Adobe® Acrobat® Reader, and Microsoft® Office document viewers. While simultaneously controlling the home, boardroom, or lecture hall, the TPMC-V15 provides everything needed for enjoying online music and movies, viewing Web pages and accessing most types of digital media without necessitating a separate computer. In addition, VNC Viewer support delivers enhanced cross-platform interaction with computers over the network or Internet, allowing remote



access and control of desktop applications to unleash all kinds of new presentation and system integration possibilities.

Integrated Video

For monitoring security cameras or watching a DVD or television, the TPMC-V15 provides multiple ways to view video signals right on the touchscreen. Streaming or downloaded HD video can be viewed using its embedded media players, or conventional video can be viewed through a direct wired connection to an external composite video source. Native support for the motion-JPEG streaming format also allows the TPMC-V15 to display live video from a Web camera or network video streamer (Crestron **CEN-NVS100** or equivalent) right over the LAN connection. Video images can be displayed full screen, or at any location on the screen in a fully-scalable window.

Speakers and Microphone

Built-in front-firing speakers provide clear audio for streaming media and internal PC applications, and enable 2-way IP intercom in combination with the integrated microphone. Customized WAV files can also be loaded on the TPMC-V15 to add dimension to the touchscreen graphics with personalized sounds, button feedback, and voice prompts.

IP Intercom

Crestron IP intercom enables 2-way voice communication and room monitoring over Ethernet with other compatible Crestron touchpanels.

Keyboard/Mouse Options

On-screen keyboard and mouse capabilities enable complete control of the TPMC-V15's embedded PC, and can also be used to control external network devices like the Crestron **ADMS** Intermedia Deliver System™ as well as computers running Crestron **CEN-WIN** Touchpanel HID Emulator software. A USB port is also provided for the connection of a physical keyboard and mouse.

Streamlined Connectivity

A single, low-profile cable exits the rear of the V-Panel, extending to a separate interface module (model **TPMC-V-IMCW^[1]**), which may be discreetly mounted to a flat surface or in a 1-gang wall box up to 15 ft away. The interface module provides connectivity for power, communications, and video signals. Both Cresnet® and high-speed Ethernet ports are provided for control system communications and LAN access.

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can be furnished via Cresnet® or an optional power pack (model **PW-2420RU**^[2]). Wired video connectivity is handled through a single balanced or unbalanced composite input, allowing compatibility with both conventional coaxial and Crestron Home® Balanced AV distribution systems.

> *Sleek, beautiful, versatile*

> *15" widescreen touchpanel*

> *Integrated digital graphics engine*

> *VESA-compatible mounting affords endless install options*

> *Tabletop tilt model features clean, modern design*

> *Wall mount model installs flush in shallow spaces*

> *Contemporary appearance blends in anywhere*

> *1280 x 768 WXGA display resolution*

> *High-definition 24-bit graphics engine*

> *Adobe® Flash® object support*

> *Multi-format streaming video and audio*

> *Wired composite video input*

> *Crestron IP intercom*

> *Built-in microphone and speakers*

> *WAV file customizable audio feedback*

> *USB keyboard/mouse port*

> *Onscreen keyboard and mouse capability*

> *Embedded PC Applications for Web browsing, playing or streaming digital media, accessing and controlling*

external computers, and viewing Adobe® Acrobat® and MS

Office files

> *High-Speed Ethernet and Cresnet®*

> *Available in white or black*

SPECIFICATIONS

Touchscreen Display

Display Type : TFT Active matrix color LCD

Size: 15 inch (381 mm) diagonal

Aspect Ratio: 15:9 WXGA

Resolution: 1280 x 768 pixels

Brightness: 470 nits (cd/m²)

Contrast: 700:1

Color Depth: 24-bit, 16.7M colors

Illumination: Backlit fluorescent

Viewing Angle: ±85° horizontal, ±85° vertical

Touchscreen: Resistive membrane

Buttons

Hard Key: (1) Programmable pushbutton, also reboots the touchpanel if held for 5 seconds

Memory

SDRAM: 1 GB

Flash: 4 GB

Memory Card: Expandable up to 4 GB using MMC compatible card (not included)

Maximum Project Size: 120 MB

Graphics Engine

24-bit non-palette graphics + 8-bit alpha channel transparency, 16.7 million colors, Adobe® Flash® object support, multi-mode objects, dynamic graphics and text, PNG translucency, full-motion (60 fps) animation, transition effects, color key video windowing, remote annotation

Embedded Applications

Microsoft Internet Explorer w/Adobe® Flash® plug-in, Windows Media® Player, RealPlayer®, Crestron MJPEG Viewer, IP Intercom, NetMeeting®, Remote Desktop, VNC Viewer, Java™ Runtime, Crestron MediaMarker™ Notebook, Crestron Keyboard, Adobe® Acrobat® Reader, WordPad, MS Word Viewer 2007, Excel® Viewer 2007, PowerPoint® Viewer 2007 ^[3]

Communications

Ethernet: 10BaseT/100BaseTX, auto-switching, auto-negotiating, auto-discovery, full/half duplex, TCP/IP, UDP/IP, CIP, DHCP, for control and console

Cresnet: Cresnet slave mode for control and console

USB: USB 2.0 host, supports USB HID class devices

Video

Input Signal Types: Composite

Formats: NTSC or PAL

Input Resolutions: 480i, 576i

Color Depth: 24-bit, 16.7M colors

Streaming/File Formats: MJPEG via Crestron MJPEG Viewer, plus all formats supported by the embedded media player applications^[3]

Audio

Hardware Features: Built-in microphone and amplified speakers

Streaming/File Formats: All formats supported by the embedded media player applications^[3]

Audio Feedback: WAV format, 8 & 16 bit PCM, mono & stereo, 8 - 44.1 kHz sampling rates

Connectors

USB HID: (1) USB Type A female;

USB 2.0 host port for connection of a mouse/keyboard or other USB HID-compliant device

TO MODULE: VIDEO/LAN and NET ports comprised of (1) 10-pin RJ45 female, shielded and (1) 4-pin 3.5mm detachable terminal block;

Connect to **TPMC-V-IMCW** interface module via TPMC-V-CBL-S cable^[1];

See the TPMC-V-IMCW interface module specification for other connectors

MEMORY EXPANSION: (1) MMC compatible card slot;

Accepts Multimedia Memory Card (MMC) up to 4 GB for memory expansion

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Power Requirements

Cresnet Power Usage: 50 Watt (2 Amps @ 24 Volts DC) including **TPMC-V-IMCW** module^[1]

Power Pack: 2 Amps @ 24 Volts DC;

100-240 Volts AC, 50/60 Hz power pack, model **PW-2420RU** sold separately

Note: May be powered by power pack or Cresnet network power, not both. All power connections are made via the **TPMC-V-IMCW** interface module^[1]

Environmental

Temperature: 41° to 113°F (5° to 45°C)

Humidity: 10% to 90% RH (non-condensing)

Enclosure

Plastic case, VESA 75x75 mm mountable;

TPMC-V15-TILT model includes tabletop tilt stand with 0° to 35° adjustable screen tilt, optional swivel mount sold separately;

TPMC-V15-WALL model includes **WMKC-V15** wall mount conversion kit with plastic front bezel, additional mounting accessories sold separately

Dimensions

TPMC-V15: Height: 11.10 in (282 mm);

Width: 15.33 in (390 mm);

Depth: 1.85 in (47 mm)

TPMC-V15-TILT: Height: 11.69 in (297 mm) max at 0° tilt;

Width: 15.33 in (390 mm);

Depth: 8.35 in (212 mm) max at 35° tilt

TPMC-V15-WALL: Height: 12.44 in (316 mm);

Width: 16.67 in (424 mm);

Depth: 2.21 in (57 mm)

Weight

TPMC-V15: TBA

TPMC-V15-TILT: TBA

TPMC-V15-WALL: TBA

Available Models

TPMC-V15-B: V-Panel™ Integrated 15" VESA Mount Touchpanel, Black

[Release Date: TBA]

TPMC-V15-W: V-Panel™ Integrated 15" VESA Mount Touchpanel, White

[Release Date: TBA]

TPMC-V15-TILT-B: V-Panel™ Integrated 15" Tilt Touchpanel, Black

[Release Date: TBA]

TPMC-V15-TILT-W: V-Panel™ Integrated 15" Tilt Touchpanel, White

[Release Date: TBA]

TPMC-V15-WALL-B: V-Panel™ Integrated 15" Wall Mount Touchpanel, Black

[Release Date: TBA]

TPMC-V15-WALL-W: V-Panel™ Integrated 15" Wall Mount Touchpanel, White

[Release Date: TBA]

Notes:

1. Item(s) included, see individual product specifications for additional information.

2. Item sold separately.

3. Contact Crestron for a current list of embedded applications. To ensure reliable performance, new device drivers and applications are available only from Crestron through firmware updates.